

AN ANNOTATED KEY TO DESCRIBED SPECIES
OF THE NEOTROPICAL GENUS *GLYPTOLENUS*
(CARABIDAE: PTEROSTICHINI: AGONI)

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ABSTRACT

The Neotropical agonine genus *Glyptolenus* Bates is briefly redefined to include certain species heretofore assigned to *Colpodes* MacLeay. All described species are keyed, and the following data are given for each: major literature citations; type-locality; label data and type-depository; and notes on distribution and relationship. Type-localities are restricted for some species. Lectotypes are designated for all names not borne by clear holotypes. All undescribed species known to me are treated parenthetically in the key and briefly mentioned in the discussion of closely related forms. Of 19 species-group names recognized as valid, 12 are new combinations in *Glyptolenus*. Four other names are treated as synonyms, the following 3 as new synonymies: *G. chalybaeus* Dejean 1831 (= *G. lebioides* Bates 1878); and *G. ruficollis* Chaudoir 1878 (= *G. cayennensis* Chaudoir 1878, = *G. viridinitens* Oberthür 1883).

Bates (1878) described the genus *Glyptolenus* to contain *G. rugicollis*, an agonine with grooved tarsi and tibiae. In 1882 and 1884, he transferred 3 species with these characteristics from *Colpodes* to *Glyptolenus*, and added 2 new species: *G. ater* (Chaudoir), *G. janthinus* (Dejean), *G. latitarsis* Bates, *G. nigrita* (Chaudoir), and *G. transformatus* Bates. Only 1 additional species has since been placed in *Glyptolenus*, the West Indian *G. simplicicollis* Darlington.

During my study of Mexican *Colpodes* type material in London and Paris in 1968, I found Bates' interpretation of the genus to be illusory. Chaudoir (1878) keyed a section of *Colpodes* on the canaliculate structure of the tibia, correctly disregarding presence or absence of longitudinally directed median sulci on the dorsal surfaces of the tarsal articles. This arrangement is reflected in his collection, with species recognized as *Glyptolenus* by Bates interspersed with many other species in which the tarsi are not distinctly sulcate.

This paper extends my treatment of Mexican *Platynus* (1973), in which I characterized *Glyptolenus* as Agoni (*sensu* Lindroth 1966) with anterior tibia externally canaliculate and male genitalia basally melanistic. This diagnosis is sufficient to distinguish *Glyptolenus* from all other Agoni genera of the World.

Glyptolenus is an exclusively New World genus; I plan a detailed revision of the species of Mexico and Central America, but have no plans to revise the South American species. I here treat all names referable to the genus, in essentially the same format as in my *Platynus* paper except that the discussion for each included form is more extended. I have examined type material for each included name, and here designate lectotypes as appropriate. In the key

to described species, parenthetic characteristics are given to help distinguish the described forms from all undescribed forms known to me. Types in the Oberthür collection are located by box, column, and row (e.g., 298/1/2).

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Key to Described Species of *Glyptolenus*

- | | | |
|--------|---|-------------------------------------|
| 1. | Elytral interval 3 at most bisetose, apical seta absent | 2 |
| 1'. | Elytral interval 3 trisetose, apical seta present | 7 |
| 2(1). | Tarsal articles 1-4 sulcate dorsomedially | 3 |
| 2'. | Tarsal articles 1-4 not sulcate dorsomedially; South America | <i>G. sulcipennis</i> (Chaudoir) |
| 3(2). | Elytral apex rounded | 4 |
| 3'. | Elytral apex spinose; South America | <i>G. spinosus</i> (Reiche) |
| 4(3). | Anterior pronotal seta present | 5 |
| 4'. | Anterior pronotal seta absent | 6 |
| 5(4). | Pronotum not rugose; elytral striae distinctly punctate; (lateral pronotal explanation narrow, impunctate; pronotal front angle weakly produced); Central America | <i>G. latitarsis</i> Bates |
| 5'. | Pronotum strongly rugose; lateral pronotal margin angulate at middle; South America | <i>G. nigrinus</i> (Chaudoir) |
| 6(4'). | Elytral striae impunctate; lateral pronotal explanation developed strongly only at base; West Indies | <i>G. simplicicollis</i> Darlington |
| 6'. | Elytral striae distinctly punctate; lateral pronotal explanation strongly developed throughout; (elytral striae strongly punctate); Central America | <i>G. transformatus</i> Bates |
| 7(1'). | Elytron piceous or aeneopiceous; pronotum not rugose; anterior pronotal seta present; pronotal hind angle well developed | 8 |
| 7'. | Combination of characters not as above | 9 |

- 8(7). Apices of elytral intervals concave or striate; elytron piceous or rufopiceous, slightly iridescent; South America.....
..... *G. apicestriatus* (Chaudoir)
- 8'. Apices of elytral intervals flat to convex; (elytral striae strongly punctate; tarsal articles 1-4 deeply sulcate dorso-medially); South America *G. rivalis* (Chaudoir)
- 9(7'). Pronotum not strongly rugose 10
- 9'. Pronotum strongly rugose; elytron piceous or rufopiceous; (pronotum with posterior seta, base broad, hind angle denticulate, lateral margin angulate at middle); Central America *G. rugicollis* Bates
- 10(9). Anterior pronotal seta absent 11
- 10'. Anterior pronotal seta present 13
- 11(10). Elytron black or piceous; Central America *G. ater* (Chaudoir)
- 11'. Elytron bright blue to blue-black..... 12
- 12(11'). Elytron bright blue; elytral microsculpture formed of dense transverse lines; elytral intervals strongly convex; Central and South America *G. janthinus* (Dejean)
- 12'. Elytron blue-black, with or without greenish luster; elytral microsculpture more open, only slightly stretched toward elytral apex; elytral intervals weakly convex
..... *G. latelytra* (Darlington)
- 13(10'). Eye bulging, prominent 14
- 13'. Eye not bulging, distance between eyes more than half maximum width of head..... 15
- 14(13). Elytral microsculpture formed of dense lines; (elytron blue-green to bright blue, not bright green); Central and South America [= *lebioides* Bates] *G. chalybaeus* (Dejean)
- 14'. Elytral microsculpture more open; elytron green or blue-green; pronotum broad to narrow, piceous to rufous; South America [= *cayennensis* Chaudoir, = *viridinitens* Oberthür]
..... *G. ruficollis* (Chaudoir)
- 15(13'). Lateral pronotal margin not or slightly sinuate behind, hind angle rounded or obtuse 16
- 15'. Lateral pronotal margin distinctly sinuate behind 19
- 16(15). Pronotal hind angle rounded, posterior seta far forward; (elytron brightly colored, not aeneopiceous) 17
- 16'. Pronotal hind angle evident, posterior seta near base 18
- 17(16). Elytron bright blue; South America *G. azureipennis* (Chaudoir)
- 17'. Elytron blue-green; South America..... *G. cyclothorax* (Chaudoir)
- 18(16'). Elytral microsculpture formed of dense lines; (tarsal articles 1-4 deeply sulcate dorsomedially); South America
..... *G. affinis* (Chaudoir)
- 18'. Elytral microsculpture more open; South America
..... *G. aereipennis* (Chaudoir)
- 19(15'). Lateral pronotal margin strongly sinuate, hind angle nearly right; tarsal articles 1-4 deeply sulcate dorsomedially; eye large; elytron cupreoaeneous; South America.....
..... *G. nitidipennis* (Chaudoir)

- 19'. Pronotum narrow, lateral margin less sinuate, hind angle obtuse; tarsal articles 1-4 not sulcate dorsomedially; eye flattened; (elytron bright blue, not violaceous)..... 20
- 20(19'). Pronotum narrow, nearly as long as wide, base strongly constricted, lateral margin more strongly sinuate; South America [= *purpureovarius* Motschoulsky]..... *G. azureus* (Dejean)
- 20'. Pronotum more transverse, base less strongly constricted, lateral margin less strongly sinuate; Central America.....
..... *G. purpuripennis* (Chaudoir)

ANNOTATED LIST OF SPECIES

Glyptolenus aereipennis (Chaudoir), **new combination.**

Dyscolus aereipennis Chaudoir 1850:388. Type-locality: "Brazil", restricted by Chaudoir (1859) to BRAZIL, Rio de Janeiro: Nova Friburgo. Type: lectotype male, here designated, first male (first specimen) in series of 9 specimens labelled "Ex Musaeo Chaudoir"; in Chaudoir collection (298/1/1), MNHP.

Colpodes aereipennis: Chaudoir 1859:358; Chaudoir 1878:379; Csiki 1931:747; Blackwelder 1944:37.

Specimens of this South American species key readily to couplet 18; *G. affinis* and various undescribed forms that also key to couplet 18 differ by having extremely dense, fine elytral microsculpture. I have examined 16 additional specimens of *G. aereipennis* from various localities in eastern Brazil, including specimens in MNHP from Nova Friburgo collected after Chaudoir's works were published. Localities are: BRAZIL, Bahia: Cachimbo. Rio de Janeiro: Nova Friburgo; Rio de Janeiro. Santa Catarina: Nova Teutonia. [Not located]: Caraça.

Glyptolenus affinis (Chaudoir), **new combination.**

Colpodes affinis Chaudoir 1878:379; Csiki 1931:747; Blackwelder 1944:37. Type-locality: VENEZUELA, Distrito Federal: Caracas. Type: holotype male labelled "14 • sect. b." and "Ex Musaeo Chaudoir"; in Chaudoir collection (298/1/2), MNHP.

Specimens of this South American species key readily to couplet 18, and differ from the related *G. aereipennis* by having much finer and denser elytral microsculpture. I have examined just 1 additional specimen from "Venezuela", in the Bates collection, MNHP.

I have seen 4 specimens of 1 or perhaps several related undescribed species. These specimens are smaller and differ by having tarsal articles 1-3 not or slightly sulcate dorsomedially. Localities are: BOLIVIA, Cochabamba: Chapare, Alta Palmar (JNeg) 1; Yungas, Puente Villa (JNeg) 1. ECUADOR, Pichincha: Quito (IRSB) 1. VENEZUELA, Merida: Merida (USNM) 1. The Ecuador specimen has bright blue rather than green elytra. The Venezuela specimen has the head, pronotum, and appendages including the basal antennal articles dark rather than rufous as in the Bolivian specimens. I suspect these 4 specimens are conspecific, but that they represent a species distinct from *G. affinis*.

Glyptolenus apicestriatus (Reiche), **new combination.**

Anchomenus apicestriatus Reiche 1843:75. Type-locality: "Colombia". Type: lectotype male, here designated, labelled "Colombia", "*Anchomenus apicestriatus* Reiche Rev. ent. 1843", and "Ex Musaeo Chaudoir"; in Chaudoir collection (298/2/3), MNHP.

Colpodes apicestriatus: Chaudoir 1878:381; Csiki 1931:748; Blackwelder 1944:37 (as *apicestriata*).

A second male in the Chaudoir collection, MNHP, is labelled "14 sect. a." and is a paralectotype. I have not seen additional material of this highly distinctive form, the only member of the genus with the apices of the elytral intervals concave or striate. Specimens of this species should key readily. *Glyptolenus apicestriatus* probably is closely related to *G. affinis* and *G. nitidipennis*.

Glyptolenus ater (Chaudoir).

Colpodes ater Chaudoir 1859:358; Chaudoir 1878:380. Type-locality: MEXICO, Veracruz: Toxpam. Type: lectotype male, here designated, labelled "Ex Musaeo Chaudoir"; in Chaudoir collection (298/1/6), MNHP.

Glyptolenus ater: Bates 1882:99; Csiki 1931:766; Blackwelder 1944:41.

Specimens of this species are readily distinguished as keyed. I have examined 47 specimens of this species from various localities in Mexico, Guatemala, and Panama.

Glyptolenus azureipennis (Chaudoir), **new combination.**

Colpodes azureipennis Chaudoir 1859:355; Chaudoir 1878:377; Csiki 1931:748; Blackwelder 1944:38. Type-locality: BRAZIL, Rio de Janeiro: Nova Friburgo. Type: lectotype female, here designated, labelled "Bresil Bescke" and "Ex Musaeo Chaudoir"; in Chaudoir collection (297/6/3), MNHP.

I have seen but 4 specimens of this species, all in MNHP. A paralectotype female (stated to be a male in original description) is labelled "Colombie". Two other specimens are labelled "Oberhalb Muzo Dr. Otto Thieme IV. 1887". A specimen in the Oberthür material placed with *azureipennis* material and labelled "Colombie" and "... Mniszech" is conspecific with *G. cyclothorax*. Also, I have labelled a specimen in IRSB previously identified as *G. azureipennis* as *G. cf. affinis* because its pronotal hind angles are distinct; this specimen was not, however, compared with type material, and I may not have it keyed properly through couplet 17.

Glyptolenus azureus (Chaudoir), **new combination.**

Colpodes azureus Chaudoir 1859:354; Chaudoir 1878:377; Csiki 1931:748; Blackwelder 1944:38 (as *azurea*). Type-locality: "Colombia", here restricted to COLOMBIA, Cundinamarca: Bogota. Type: lectotype male, here designated, labelled "male" (green), "*Anchomenus*" (green), "*azureus* in Colombia" (green), and "Ex Musaeo Chaudoir"; in Chaudoir collection (297/6/1), MNHP.

Ophryodactylus purpureovarius Motschoulsky 1864:308. Type-locality: VENEZUELA, Distrito Federal: Caracas. Type: lectotype male, here designated, labelled "*Ophriodactylus purpureovarius* Motsch." and "Ex Musaeo Chaudoir"; in Chaudoir collection (297/6/1), MNHP.

Colpodes purpureovarius: Chaudoir 1878:377 (synonymy).

I examined 35 specimens of *G. azureus* from the following localities: BOLIVIA, Cochabamba: Yungas del Palmar. COLOMBIA, Cundinamarca: Bogota; "Tequendauria". VENEZUELA, Distrito Federal: Caracas.

I also examined a specimen from ECUADOR, Loja: Loja (MNHP) in which the front tibiae are not canaliculate though the hind tibiae are: I cannot decide if this specimen is conspecific with *G. azureus*, but it definitely is closely related.

Known distributions of *G. azureus* and *G. purpuripennis* are separated by the entire length of Central America, yet where they occur they seem to be abundant. Though superficial differences are rather slight, the 2 forms probably are reproductive isolates.

Glyptolenus chalybaeus (Dejean), **new combination.**

Anchomenus chalybaeus Dejean 1831:720. Type locality: "Brazil" (also "Guadeloupe"), here restricted to BRAZIL, Rio de Janeiro: Nova Friburgo. Type: lectotype female, here designated, labelled "male" (green), "chalybaeus mihi in Brasilia D. Latreille" (green), "Anchomenus" (green), "Ex Musaeo Chaudoir"; in Chaudoir collection (298/2/1), MNHP.

Colpodes chalybaeus: Chaudoir 1859:357; Chaudoir 1878:381; Csiki 1931:750; Blackwelder 1944:38 (as *chalybaea*).

Colpodes lebioides Bates 1878:599; Bates 1882:129; Csiki 1931:756; Blackwelder 1944:39. Type-locality: NICARAGUA, Chontales: [locality not specified]. Type: lectotype female, here designated, labelled "Chontales" and "Colpodes lebioides Bates"; in Bates collection (372/4/3), MNHP. **New synonymy.**

This is a widespread, geographically varied species, and is closely related to *G. ruficollis*. Central American specimens tend to be more greenish as in *ruficollis*, but with head and pronotum dark; the *lebioides* specimens tend to have dark femora and stronger bluish or aeneous luster on the head and pronotum, but the lectotype of *chalybaeus* also has dark femora (unlike most other South American specimens). I examined 40 specimens from various localities in Dominica, Guadeloupe, Costa Rica, Panama, and Brazil.

I have also examined 2 specimens from the Mexican states of Chiapas and Veracruz (UASM) which may be conspecific with *G. chalybaeus* but which have bright green elytra. I tentatively regard them as representative of an undescribed species.

Glyptolenus cyclothorax (Chaudoir), **new combination.**

Colpodes cyclothorax Chaudoir 1878:377; Csiki 1931:752; Blackwelder 1944:38. Type-locality: "Colombia". Type: lectotype female, here designated, labelled "13^e sect." and "Ex Musaeo Chaudoir"; in Chaudoir collection (297/6/4), MNHP.

There is 1 additional specimen of *cyclothorax* in the Chaudoir collection labelled "Colombie" and "... Mniszech", but it is placed under *azureipennis*. Another specimen in MNHP was not compared with the type but runs without difficulty through my key to *cyclothorax*; it is from PERU: Chanchamayo [Not located]. *Glyptolenus azureipennis* and *G. cyclothorax* are closely related, and they may be conspecific.

Glyptolenus janthinus (Dejean).

Anchomenus janthinus Dejean 1831:721. Type-locality: "Bresil". Type: holotype male labelled "Anchomenus", "janthinus mihi h in Brasilia D. Lacordaire", and "Ex Musaeo Chaudoir"; in Chaudoir collection (298/1/8), MNHP.

Colpodes janthinus: Chaudoir 1859:357; Chaudoir 1878:381.

Glyptolenus janthinus: Bates 1882:98; Bates 1884:282; Csiki 1931:766; Blackwelder 1944:41.

This species is distinctive, abundant, and widespread. I examined 18 specimens from various localities in Costa Rica, Panama, and Brazil.

Glyptolenus latelytra (Darlington), **new combination**.

Colpodes latelytra Darlington 1935:199; Blackwelder 1944:39. Type-locality: JAMAICA, Blue Mountains. Type: holotype female labelled "Main Range Blue Mts. 5-7388 ft. Aug. 17-19", "Jamaica 1934 Darlington", and "22011 M.C.Z. Holotype *Colpodes latelytra* D."; in MCZ.

Darlington originally compared his specimen of *G. latelytra* with 2 specimens of *G. chalybaeus* from GUADELOUPE, Gourbegré (MCZ), but did so inaccurately: in *chalybaeus* the anterior pronotal setae are present (not absent as stated by Darlington); and the type of *latelytra* is a female (cited as a male by Darlington). Specimens of this species should key with no difficulty. I suspect its closest relatives are *G. ater* and *G. janthinus*, but the elytral microsculpture near apex and base is much more open and only slightly transverse. I have seen 1 other specimen, a male from JAMAICA, Green Hills (USNM).

Glyptolenus latitarsis Bates.

Glyptolenus latitarsis Bates 1884:282; Csiki 1931:266; Blackwelder 1944:41. Type-locality: PANAMA, Chiriqui: Boquete. Type: holotype male labelled "TYPE H.T.", "Sp. figured", "Boquete, 3500 ft. Champion", etc.; in BMNH (375/2/4).

One additional specimen (PANAMA, Chiriqui: Volcán de Chiriqui) is in the Bates collection, MNHP. I tentatively consider as conspecific three further specimens: MEXICO, Chiapas: 3.1 mi. s. Pueblo Nuevo (UASM) 2; 1.5 mi. n. Pueblo Nuevo (UASM) 1. The Mexican specimens differ from the type by having darker appendages and by less narrowed lateral pronotal explanations.

Specimens of *G. latitarsis* should key with no difficulty, but this species, *G. nigrinus*, and *G. transformatus* belong to a rather large complex of species most of which are not yet described. I have examined 1 specimen of an undescribed form distinguished from *G. latitarsis* by much wider lateral pronotal explanations and by more strongly developed pronotal front angles: MEXICO, Oaxaca: 16.9 mi. s. Valle Nacional (UASM).

Glyptolenus nigrinus (Chaudoir).

Colpodes nigrita Chaudoir 1878:380. Type-locality: "Amerique meridionale". Type: holotype female labelled "Ex Musaeo Chaudoir"; in Chaudoir collection (298/1/7), MNHP.

Glyptolenus nigrinus: Bates 1882:98; Csiki 1931:766; Blackwelder 1944:41.

This species is close to *G. latitarsis*, *G. transformatus*, and at least 2 additional undescribed Central American species. I have seen no additional specimens of *G. nigrinus*, but have examined 2 specimens of an apparently undescribed South American form which is closely related. These specimens differ from the type of *nigrinus* by having a non-rugose pronotal disc and by having broad, punctate lateral pronotal explanations. Localities are: PERU, San Martín: Moyobamba (MNHP) 1; Huallaja, Aguaytia (JNeg) 1.

Glyptolenus nitidipennis (Chaudoir), **new combination.**

Dyscolus nitidipennis Chaudoir 1850:384. Type-locality: "Colombia". Type: lectotype female, here designated, first of 2 females labelled "Ex Musaeo Chaudoir"; in Chaudoir collection (298/1/7), MNHP.

Colpodes nitidipennis: Chaudoir 1859:357; Chaudoir 1878:381; Csiki 1931:758; Blackwelder 1944:39.

The only specimens of this form seen by me are the 2 specimens in the Chaudoir collection and 1 in the Bates collection (MNHP), none with specific locality data.

Glyptolenus purpuripennis (Chaudoir), **new combination.**

Colpodes purpuripennis Chaudoir 1878:377; Bates 1882:129; Csiki 1931:761; Blackwelder 1944:40. Type-locality: "Oaxaca", here restricted to MEXICO, Oaxaca: Cerro de Plumas (see Bates 1882). Type: lectotype male, here designated, labelled "Ex Musaeo Chaudoir"; in Chaudoir collection (297/6/2), MNHP.

I have examined specimens of this species from various localities in upland parts of the Mexican states of Chiapas, Guerrero, and Oaxaca. It is closely related to *G. azureus*, but distributions of the 2 forms apparently are widely disjunct.

Glyptolenus rivalis (Chaudoir), **new combination.**

Colpodes rivalis Chaudoir 1878:380; Csiki 1931:761; Blackwelder 1944:40. Type-locality: BRAZIL, Rio de Janeiro: Petropolis. Type: lectotype female, here designated, 1 of 2 specimens labelled "Ex Musaeo Chaudoir"; in Chaudoir collection (298/1/5), MNHP.

During my visit to London and Paris in 1968, I distinguished 5 forms in a South American complex centered about *G. rivalis*; I do not know how many of these are distinct species, but I have seen some samples in which 2 forms are present. The type of *G. rivalis* has the elytral striae strongly punctate, and tarsal articles 1-3 strongly sulcate dorsomedially; another form has the tarsal articles faintly sulcate, and 3 forms have the striae less strongly punctate. The latter 3 forms differ from one another in density of elytral microsculpture, and in size of posterolateral pronotal impressions.

In addition to the type specimens, I have seen 15 specimens from Brazil with the above specified characters of *G. rivalis*: BRAZIL, Parana: Bocaiuva (UASM) 13. Rio de Janeiro: Nova Friburgo (MNHP) 1. Santa Catarina: Nova Teutonia (JNeg) 1.

Glyptolenus ruficollis (Chaudoir), **new combination.**

Colpodes ruficollis Chaudoir 1878:379; Csiki 1931:762; Blackwelder 1944:40. Type-locality: BRAZIL, Rio de Janeiro: [locality not specified]. Type: lectotype (?female), here designated, labelled "Ex Musaeo Chaudoir"; in Chaudoir collection (298/1/3), MNHP.

Colpodes cayennensis Chaudoir 1878:380; Csiki 1931:750; Blackwelder 1944:38. Type-locality: FRENCH GUIANA, Cayenne. Type: holotype male labelled "14♂ sect. b." and "Ex Musaeo Chaudoir"; in Chaudoir collection (298/1/4), MNHP. **New synonymy.**

Colpodes viridinitens Oberthür 1883:54. Type-locality FRENCH GUIANA, Cayenne. Type: holotype female labelled "Cayenne Dr. Nodier", "*Colpodes viridinitens* R. Oberthür TYPE Col. novit. I. p. 54"; in Oberthür collection (298/1/3), MNHP. Placed next to type of *ruficollis*. **New synonymy.**

The Chaudoir collection contains only the type specimens of *ruficollis* and *cayennensis*, while the Bates collection contains 2 specimens of *cayennensis* from "Cayenne" and 1 of *ruficollis* without locality data; the *cayennensis* specimens differ from the *ruficollis* specimens by having narrower and more piceous pronota. However, other specimens in the Oberthür collection, all from French Guiana, indicate that the distinction does not hold. The type of *viridinitens* has the form of *ruficollis* but the color of *cayennensis*; 1 specimen from Gourdonville has the form of *cayennensis* but the color of *ruficollis*; and 3 specimens from Passoura and 2 from Roches de Kourou have the form and color of *ruficollis*.

Both Blackwelder and Csiki listed *ruficollis* from Mexico and Guatemala, attributed to Bates (1882:125); the Bates record pertains to *Colpodes ruficornis*, and *G. ruficollis* is not known from Central America. Neither Blackwelder nor Csiki listed *viridinitens*, and I am indebted to G. E. Ball for finding the original description for me.

Glyptolenus ruficollis and *G. chalybaeus* are related, similar, and sympatric in South America where they are distinguished readily by the open microsculpture of *ruficollis*.

Glyptolenus rugicollis Bates.

Glyptolenus rugicollis Bates 1878:595; Bates 1882:98; Csiki 1931:766; Blackwelder 1944:41. Type-locality: NICARAGUA, Chontales: [locality not specified]. Type: holotype female labelled "Chontales" and "Glyptolenus rugicollis Bates"; in Bates collection, MNHP.

Bates (1882) confused at least 2 and probably 3 species under the name *G. rugicollis*; his records from El Tumbador and Las Mercedes, Guatemala, refer to an undescribed form. In true *G. rugicollis* the pronotum has 2 pairs of marginal setae, has the base relatively broad and hind angles denticulate, and has the lateral margins more or less angulate at the middle. I have seen 3 specimens with these characteristics: NICARAGUA, Chontales: [locality not specified] (MNHP) 1, holotype. COSTA RICA, Cartago: Turrialba (USNM) 1. PANAMA, Chiriqui: Volcan de Chiriqui (BMNH) 1.

Glyptolenus simplicicollis Darlington.

Glyptolenus simplicicollis Darlington 1934:97; Blackwelder 1944:41. Type-locality: DOMINICA, Laudet. Type: holotype male labelled "Laudet Dominica, B. W. I. June 9 1911" and "Holotype Glyptolenus simplicicollis Darl."; in AMNH.

The absence of the terminal seta of elytral interval 3 implies that this species is related to *G. latitarsis*, *G. nigrinus*, and *G. transformatus*, but the relationship probably is not close. In form, and in particular in the narrow pronotal explanations, *G. simplicicollis* more nearly resembles the group that includes *G. ater*, *G. janthinus*, and *G. latelytra*. I have not seen additional material of this species.

Glyptolenus spinosus (Reiche), **new combination.**

Agonum spinosus Reiche 1843:77. Type-locality: "Colombia". Type: lectotype female, here designated, labelled "14 ♂ sect. b." and "Ex Musaeo Chaudoir"; in Chaudoir collection (297/6/6), MNHP.

Colpodes spinosus: Chaudoir 1859:360; Chaudoir 1878:378; Csiki 1931:763; Blackwelder 1944:40 (as *spinosa*).

I have seen no additional specimens of this fine species, the only member of the genus with spinose elytral apices.

Glyptolenus sulcipennis (Chaudoir), **new combination.**

Colpodes sulcipennis Chaudoir 1878:377; Csiki 1931:764; Blackwelder 1944:40. Type-locality: COLOMBIA, Cundinamarca: Bogota. Type: holotype female labelled "13^esect." and "Ex Musaeo Chaudoir"; in Chaudoir collection (297/6/5), MNHP.

I have seen no other specimens of this distinctive form.

Glyptolenus transformatus Bates.

Glyptolenus transformatus Bates 1882:99; Csiki 1931:766; Blackwelder 1944:41. Type-locality: GUATEMALA, Quezaltenango: Cerro Zunil. Type: holotype female labelled "TYPE H.T.", "Cerro Zunil 4-5000 ft. Champion", etc.; in BMNH (375/2/3).

I have examined no further material of this species, but have seen 5 specimens of a related but undescribed species from the Mexican states of Jalisco and Oaxaca in the Sierra Madre del Sur (UASM).

LITERATURE CITED

- BATES, H. W. 1878. On new genera and species of geodephagous Coleoptera from Central America. *Proc. Zool. Soc. Lond.* 1878:587-609.
- BATES, H. W. 1882. *Biologia Centrali-Americana*. Insecta, Coleoptera, Carabidae. 1(1):40-152, pl. iii-v.
- BATES, H. W. 1884. *Biologia Centrali-Americana*. Insecta, Coleoptera, Carabidae. 1(1):Supplement. 257-299, pl. xiii.
- BLACKWELDER, R. E. 1944. Checklist of the coleopterous insects of Mexico, Central America, the West Indies, and South America. Part 1. *Bull. U. S. Nat. Mus.* 185:i-xii, 1-188.
- CHAUDOIR, M. DE. 1850. Mémoire sur la famille des carabiques. *Bull. Soc. Imp. Nat. Moscou* 23:349-460.
- CHAUDOIR, M. DE. 1859. Monographie du genre *Colpodes* MacLeay. *Ann. Soc. Ent. France* (ser. 3) 7:287-364.
- CHAUDOIR, M. DE. 1878. Revision des genres *Onychopterygia*, *Dicranoncus* et *Colpodes*. *Ann. Soc. Ent. France* (ser. 5) 8:275-382.
- CSIKI, E. 1931. *Coleopterorum catalogus*, pars 115, Carabidae: Harpalinae V. 2:739-1002.
- DARLINGTON, P. J., JR. 1934. New West Indian Carabidae, with a list of the Cuban species. *Psyche* 41:66-131.
- DARLINGTON, P. J., JR. 1935. West Indian Carabidae II. Itinerary of 1934; forests of Haiti; new species; and a new key to *Colpodes*. *Psyche* 42:167-215.
- DEJEAN, P. F. M. A. 1831. *Spécies général des coléoptères de la collection de M. le Comte Dejean*. Paris. Vol. 5, part 2:385-883.
- LINDROTH, C. H. 1966. The ground-beetles (Carabidae, excl. Cicindelinae) of Canada and Alaska. Part 4. *Opusc. Ent. Suppl.* 23:409-648.
- MOTSCHOULSKY, V. VON. 1864. Enumération des nouvelles espèces de coléoptères rapportés de ses voyages. *Bull. Soc. Imp. Nat. Moscou* 37:171-240, 297-355.
- OBERTHÜR, R. 1883. Liste des carabiques récoltés à Saint-Laurent-du-Maroni, en 1878 et 1879 par M. le Dr. Charles Nodier, et description des espèces nouvelles. *Col. Novit.* 1:51-54.
- REICHE, L. 1843. *Coleoptera colombiana*. *Rev. Zool.* 1843:37-41, 75-79, 141-145, 177-180.
- WHITEHEAD, D. R. 1973. Annotated key to *Platynus*, including *Mexisphodrus* and most "*Colpodes*", so far described from North America including Mexico (Coleoptera: Carabidae: Agonini). *Quaest. Ent.* 9:173-217.